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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/439,890	11/12/1999	TAKESHI SUZUKI	P/3541-3	2252

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EXAMINER

CHUNG, DANIEL J

ART UNIT

PAPER NUMBER

2672

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12

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/439,890	SUZUKI, TAKESHI
	<b>Examiner</b> Daniel J Chung	<b>Art Unit</b> 2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 15 August 2003.

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1,2 and 4-11 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1,2 and 4-11 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

13)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a)  The translation of the foreign language provisional application has been received.

14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

1)  Notice of References Cited (PTO-892) 4)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_ .  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 5)  Notice of Informal Patent Application (PTO-152)  
3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6)  Other: \_\_\_\_ .

## DETAILED ACTION

Claims 1-2 and 4-11 are presented for examination. This office action is in response to the Response filed on 8-15-2003.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tagami et al (5,402,171) in view of Tanaka et al (6,208,376).

Regarding claim 1, Tagami et al discloses that the claimed feature of an image reproduction apparatus comprising:

Display image discrimination means for discriminating a display mode in which selected image data is to be displayed, the display mode including at least a normal display mode ["a normal imaging mode for performing single signal reading from an image sensor with a fixed reproduction image output range" (See col 5 line 51-54), "pixels used in ordinary mode" in Fig 60, (See col 7 line 27-28, col 26 line 66-68)], and a panoramic display mode ["another mode, panorama mode, for performing signal reading plural times by shifting an object forming position on the image sensor and

performing signal processing suitable for this reading, thereby ensuring a variable image output range at the time of image reproduction" (See col 5 line 54-58, col 7 line 28-30, col 25 line 21-22, col 26 line 68)] for a single image [i.e. reproduced image in Fig 49], wherein the display image discrimination means includes means for discriminating that the image data is a panoramic image [i.e. mark "P" in Fig 61, Fig 67, "panorama image" in Fig 64-65] when the aspect ratio of the image data [i.e.  $2N_h \times N_v$  in Fig 52] differs from that of a display area of a display device [ $N_h \times N_v$  in Fig 52] ["the image output range [aspect ratio of display area of a display device] of the conventional electronic still camera system is fixed, the broken line portion is the image output range [aspect ratio of the image data] of the reproduced image" (See col 25 line 14-22, col 26 line 65-col 27 line 61)] display mode setting means for setting the display mode, which is discriminated by the display image discrimination means, to the image data; display means for displaying the image data in the display mode set by the display mode setting means. (See Fig 1, Fig 49, Fig 52, Fig 60, Fig 64-65)

Tagami et al does not specifically disclose that "a glance display mode". However, such limitation ["glance mode"] is shown in the teaching of Tanaka et al. (See Fig 16-17, Fig 23, col 1 line 57-60, col 5 line 53-61, col 8 line 7-col 9 line 8, col 12 line 30-31) It would have been obvious to one skilled in the art to incorporate the teaching of Tanaka into the teaching of Tagami, in order to "provide user interface capable of being flexibly operated upon switching between a glance display mode and a fine display mode" (See col 1 line 51-60 in Tanaka), thereby generating a particular user's desired

image with easy manner, as such improvement is also advantageously desirable in the teaching of Tagami for displaying reproduced images with user friendly manner. (i.e. using thumbnail for easy image selection)

Regarding claim 2, refer to the discussion for the claim 1 hereinabove, Tanaka et al discloses that the display mode setting means includes means for appropriately setting a location and size of each image data to be displayed and laying out all images within a designated display area when the display image discrimination means discriminates that the image data is to be displayed at a glance. (See Fig 16-17, Fig 23, col 1 line 57-60, col 5 line 53-61, col 8 line 7-col 9 line 8, col 12 line 30-31)

Regarding claim 4, Tagami et al discloses that the display mode setting means includes means for performing a scroll operation of a panoramic image in a display area using a frame advance button [“direction buttons”; 53] when the display image discrimination means discriminates that the image data is to be displayed panoramically. (See Fig 49, Fig 50, Fig 52, col 25 line 17-22, col 26 line 8-9)

Regarding claim 5, Tagami et al discloses that the display mode setting means includes means for, when the frame advance button [“playback button”; 52] is operated again after the scroll operation of the panoramic image is completed, starting a scroll

operation of a subsequent panoramic image automatically. (See Fig 49, Fig 50, Fig 52, col 25 line 17-22, col 26 line 8-9)

Regarding claim 6, Tagami et al discloses that the display means includes means for switching a scroll display mode [53] for scrolling a panoramic image and a frame advance display mode [52] for advancing images frame by frame. (See Fig 49, Fig 50, Fig 52, col 25 line 17-22, col 26 line 8-9)

Regarding claim 7, Tagami et al discloses that the display means includes means for switching an entire reduced image display mode in which a panoramic image is reduced as it is and the reduced panoramic image is displayed at once within a display area [Fig 67, Also See Katayama (U.S 6,141,036) in references cited by Examiner] and a scroll display mode in which a panoramic image of a normal size is scrolled and displayed. (See Fig 49, Fig 50, Fig 52, col 25 line 17-22, col 26 line 8-9)

Regarding claim 8, Tagami et al discloses that the display means includes means for clearly displaying whether an image displayed in a display area is part ["indicating the panorama mode (P)"] or all of the image data ["normal mode"]. (See col 27 line 38-61)

Regarding claim 9, Tagami et al discloses that the display means includes means for performing a superimposed display to show which portion of a panoramic

image is currently displayed in a display area when the panoramic image is scrolled in a normal size. (See Fig 49, Fig 50, Fig 52, Fig 60, col 5 line 54-58, col 7 line 28-30, col 25 line 14-22, col 26 line 68, col 26 line 8-9) Although, Tagami fails to teach a superimposed display, having 'a reference viewer' in an analogous system is well known in the art to provide properly projected output image with easy manner.

Regarding claim 10, Tagami et al discloses that the display means has a divided image stepping display mode in which a panoramic image is divided into a plurality of area and the area are advanced frame by frame and displayed step by step when the aspect ratio of the panoramic image is plural times larger than that of a display area. (See Fig 49, Fig 50, Fig 52, Fig 60, col 5 line 54-58, col 7 line 28-30, col 25 line 14-22, col 26 line 68, col 26 line 8-9)

Regarding claim 11, Tagami et al discloses that a single/overall image display mode switching means ["mode selector";10] for, when a panoramic image is displayed in a display area, switching between a single image display mode and an overall imaged display, the single image display mode performing a single image display including a representative image display and a reduced image display, and the overall image display mode performing an overall image display including a divided image stepping display and a scroll display. (See Fig 49, Fig 50, Fig 52, Fig 60, col 5 line 54-58, col 7 line 28-30, col 25 line 14-22, col 26 line 68, col 26 line 8-9; Also See "mode switch button";82 in Tanaka)

***Response to Arguments/Amendments***

Applicant's argument received on 8-15-2003 has been carefully considered.

However, they do not overcome the previous rejections, which have been maintained. Thus, the finality of this office action is deemed proper.

Regarding claim 1, Applicant argued that the cited reference does not discloses that "means for discriminating that the image data is a panoramic image when the aspect ratio of the image data differs from that of the display area of the display device." (See Remarks p. 6 line 8-9) However, Tagami et al clearly discloses that "P at the upper right of the reproduced image represents a panorama image...when the output image is a panorama image, a mark representing such is indicated in the reproduced image" (See col 27 line 7-16), which reads on "discriminating that the image data is a panoramic image" in recited claims. Also, Tagami et al inherently shows that such panorama image has a large aspect ratio comparing to the display area of the display device (See Fig 60-63, Fig 67-70), as it is notoriously well known in the art that "panoramic image" is oblong/elongated/wider image in which the aspect ration of the display units differs. (as discloses by Tonosaki et al (6,414,649), See col 9 line 28-30) Therefore, applicant's argument filed 8-15-2003 are not persuasive, as obviousness can be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so

found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art.

***Conclusion***

Applicant's response and amendment are not persuasive and the previous grounds of rejection have been maintained. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Chung whose telephone number is (703) 306-3419. He can normally be reached Monday-Thursday and alternate Fridays from 7:30am- 5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael, Razavi, can be reached at (703) 305-4713.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

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Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal  
Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or  
proceeding should be directed to the Technology Center 2600 Customer Service Office  
whose telephone number is (703) 306-0377.

djc  
December 23, 2003



RICHARD KUERPE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600  
DECEMBER 23, 2003